

1   **THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY**  
2   **OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:**

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4   1.   A hydraulic motor comprising a housing having a fluid inlet, a fluid outlet and a cavity  
5   there between, a pair of intermeshing gear elements rotatable in said cavity about mutually  
6   parallel axes, each of said gear elements having a set of gear teeth disposed about the periphery  
7   of said element and a support shaft extending from oppositely directed end faces of said set of  
8   gear teeth, a bearing assembly located on opposite sides of said cavity in said housing to support  
9   said shafts for rotation about respective ones of said axes, each of said bearing assemblies having  
10   a sealing face overlying said end faces and biased into engagement with said end face by a  
11   pressure compensating seal located between said bearing and said housing, said sealing face  
12   having a channel extending partially about said spindle and in fluid communication with said  
13   inlet to introduce fluid under pressure between said faces.

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15   2.   A motor according to claim 1 wherein said channel is accuate and is centred on said axis  
16   of rotation.

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18   3.   A motor according to claim 2 wherein said channel is located between a root diameter  
19   and major diameter of each gear teeth.

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21   4.   A motor according to claim 3 wherein said channel is located on a pitch circle of gear  
22   teeth.

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24   5.   A motor according to claim 1 wherein said bearing assembly is integrally formed to  
25   support both of said shafts and a pair of channels extend about respective ones of said gears.

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27   6.   A motor according to claim 5 wherein said channels intersect at said inlet.

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1      7.     A motor according to claim 4 wherein said channels are located between a root diameter  
2     and major diameter of said teeth.

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4      8.     A motor according to claim 7 wherein said channels are located on the pitch circle of said  
5     teeth.

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7      9.     A motor according to claim 6 wherein said channels extend over an arc of 180°.

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9      10.    A motor according to claim 9 wherein said channels extend over an arc of 165°.